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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/765,965	01/19/2001	Debra Hensgen	OPTV-062/ORG/US	8232
75	90 08/12/2004		EXAMINER	
RORY D. RANKIN			DEMICCO, MATTHEW R	
CONLEY, ROSE 7 TAYON, P.C. P.O. BOX 398			ART UNIT	PAPER NUMBER
AUSTIN, TX 78767-0398			2611	
			DATE MAILED: 08/12/2004	10

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/765,965	HENSGEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Matthew R Demicco	2611				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM						
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period versions are to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 Ja	nuary 2001.					
2a) This action is FINAL . 2b) ⊠ This	Pa) This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-54</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-54</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>19 January 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11)[] The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P10-192.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document)-(d) or (f).				
2. Certified copies of the priority document		on No.				
3. Copies of the certified copies of the prior	· ·					
application from the International Bureau	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/11/02.	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)				

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: on Page 10, Line 18, broadcast station 20 should be corrected to --12-- as it appears in the drawings. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,600,368 to Matthews, III in view of International PCT WO 92/22983 to Browne et al.

Regarding Claim 1, Matthews discloses a method for processing broadcasts, comprising receiving a broadcast of a program (Col. 3, Lines 58-60), the broadcast containing a plurality of perspectives of the program (Col. 3, Lines 16-25). Matthews further discloses presenting a first of the plurality of perspectives to a viewer (Col. 4, Lines 5-13). The claimed "presenting at least one of the plurality of perspectives to the viewer" reads on the claimed "presenting a first of the plurality of perspectives to a viewer," as stated above. Matthews discloses that each viewpoint of the program is carried on a separate channel (Col. 3, Lines 21-29). What is not disclosed, however, is storing at least one of the pluralities of perspectives. Browne discloses an audio/video

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recorder that is operable to simultaneously record and display a plurality of video and audio signals (Page 6, Lines 1-12). Browne is evidence that ordinary workers in the art would recognize the benefits of being able to record multiple channels of video and audio simultaneously. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the multiple perspective channels of Matthews with the multiple channel recording of Browne in order to enable a user to record all the channels that comprise the broadcast programming they wish to view such that the program is complete when they choose to reproduce it.

Regarding Claim 2, Matthews in view of Browne disclose a method as stated above in Claim 1. Browne discloses simultaneously recording and displaying video and audio signals (Page 6, Lines 1-12). This reads on the claimed presenting the first perspective and storing being performed simultaneously.

Regarding Claim 3, Matthews in view of Browne disclose a method as stated above in Claim 1. Browne further discloses automatic program recording (Pages 22-24 and Figures 6 and 13). This reads on the claimed storing the at least one of the plurality of perspectives being performed automatically.

Regarding Claim 4, Matthews in view of Browne disclose a method as stated above in Claim 1. Browne further discloses that a user may select a program and press the play button to start a program (Page 33, Lines 10-13). This reads on the claimed presenting at least one of the stored perspectives.

Regarding Claim 5, Matthews in view of Browne disclose a method as stated above in Claim 4. Browne further discloses simultaneously recording and displaying a

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program as stated above. This reads on the claimed presenting at least one of the perspectives and storing being performed simultaneously.

Regarding Claim 6, Matthews in view of Browne disclose a method as stated above in Claim 5. Browne further discloses the ability to receive as many as 8 inputs simultaneously for playback and recording (See Figure 1, 101a – 101h). In combination with Matthews, the system of Browne is therefore operable to store all the perspectives.

Regarding Claim 7, Matthews in view of Browne disclose a method as stated above in Claim 1. Matthews discloses receiving a plurality of related video streams, each stream including one of the perspectives as stated above.

Regarding Claim 8, Matthews in view of Browne disclose a method as stated above in Claim 1. What is not disclosed, however, is receiving a plurality of related audio streams, each stream including one of the perspectives. Official Notice is hereby taken that it is well known in the art to transmit multiple audio streams for television programming. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Matthews in view of Browne with the multiple audio streams of the well-known prior art in order to allow a user to hear different languages or commentary associated with a particular program stream. Browne further discloses simultaneously recording and displaying a plurality of video and audio signals as stated above.

Regarding Claim 9, Matthews in view of Browne disclose a method as stated above in Claim 1. Browne further discloses outputting multiple programs simultaneously in tiled or overlapping windows (Page 16, Line 28 – Page 17, Line 2 and Page 21, Lines

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18-25). This reads on the claimed presenting the first perspective in one window of a display and presenting a second perspective from the plurality of stored perspectives in a different window of the display.

Regarding Claim 10, Matthews in view of Browne disclose a method as stated above in Claim 1. Browne further discloses storing at least one of the pluralities of perspectives in a circular buffer (Page 7, Lines 20-31).

Regarding Claim 11, Matthews in view of Browne disclose a method as stated above in Claim 1. Browne further discloses outputting the display data to a television (Page 6, Line 26). It is inherent that a video signal be prepared for display on the television when presenting in order for the signal to be properly received and displayed by the television.

Regarding Claim 12, Matthews in view of Browne disclose a method as stated above in Claim 1. Browne further discloses displaying video and audio signals as stated above. It is inherent that in order to reproduce an audio signal, the audio signal must be prepared for a speaker.

Regarding Claim 13, Matthews in view of Browne disclose a method as stated above in Claim 4. Browne discloses sending one of the stored perspectives from a storage device to a display as stated above. What is not disclosed, however, is sending one of the stored perspectives from a storage device through a demultiplexer to a display. Official Notice is hereby taken that it is well known to use a demultiplexer when transmitting stored audio/video from a storage device to an output device. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to

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modify the method of Matthews in view of Browne with the demultiplexer of the well-known prior art in order to implement the storage video/audio information in a digital data-stream such as the well-known MPEG compression format.

Regarding Claim 14, Matthews in view of Browne disclose a method as stated above in Claim 4. Browne further discloses that presenting at least one of the pluralities of perspectives includes searching one of the stored perspectives (Page 30, Lines 10-19 and Figure 11).

Regarding Claim 15, Matthews in view of Browne disclose a method for playing a multi-perspective program comprising receiving a broadcast of the program including a plurality of perspectives of the program, recording at least one of the perspectives in a storage device and sending a first of the plurality of perspectives to a display as stated above in Claim 1. Further it is inherent that in playing the programming on the output device that a portion of the program be played. Matthews discloses providing replays of programming (Col. 3, Lines 39-43). In conjunction with the storage and subsequent playback of multiple channels of programming taught by Browne, this reads on the claimed replaying a portion of the program from a different perspective by sending a second of the plurality of perspectives from the storage device to the display.

Regarding Claim 16, Matthews in view of Browne disclose a method as stated above in Claim 15. Browne teaches a method of storing multiple channels of programming and playing them back upon a user request as stated above. Thus, the first perspective may be a recorded perspective.

Regarding Claim 17, Matthews in view of Browne disclose a method as stated above in Claim15. Browne further discloses sending a second perspective to one window in a display to play the portion of the program concurrently with sending the first perspective to a different window in the display as stated above in Claim 9.

Regarding Claims 18-19, see Claims 7-8 above, respectively.

Regarding Claim 20, Matthews in view of Browne discloses a system for recording a broadcast including a plurality of perspectives of a program as stated above in Claim 1. Browne further discloses a receiver operable to receive the broadcast (See Figure 1), a storage device coupled to the receiver (104c) and a processor (105) operable to present at least one of the plurality of perspectives to a viewer, record at least one of the perspectives in the storage device and present at least one of the recorded perspectives to the viewer as stated above.

Regarding Claim 21, see Claim 3 above.

Regarding Claim 22, Matthews in view of Browne disclose a system as stated above in Claim 20. Further disclosed is simultaneously presenting a recorded program and recording another program as stated above. This reads on the claimed system being configured to present a recorded perspective to the viewer without interrupting the recording of the broadcast.

Regarding Claim 23, Matthews in view of Browne disclose a system as stated above in Claim 20. Matthews further discloses that the receiver is a set top box (Col. 3, Line 1 and Figure 6).

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Regarding Claim 24, Matthews in view of Browne disclose a system as stated above in Claim 22. Browne further discloses that the storage device is contained within the set top box (See Figure 1, 104c).

Regarding Claim 25, Matthews in view of Browne disclose a system as stated above in Claim 22. Browne further discloses that the storage device is removable coupled to the set top box (Page 11, Lines 4-9 and Figure 1, 104b).

Regarding Claim 26, Matthews in view of Browne disclose a system as stated above in Claim 20. Browne further discloses that the storage device is a magnetic disk (Page 11, Line 2).

Regarding Claim 27, Matthews in view of Browne disclose a system as stated above in Claim 20. Browne further discloses that the storage device is an optical disk (Page 11, Lines 1-2).

Regarding Claim 28, Matthews in view of Browne disclose a system as stated above in Claim 20. Browne further discloses that the storage device comprises RAM memory (Page 11, Line 2). What is not disclosed, however, is that the memory is flash memory. Official Notice is hereby taken that it is well known in the art to use flash memory to store data on. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Matthews in view of Browne with the flash memory of the well-known prior art in order to record information in a non-volatile RAM such that recorded programming is not lost during a power failure.

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Regarding Claim 29, Matthews in view of Browne disclose a system as stated above in Claim 20. Browne further discloses receiving air/ground based broadcast sources as well as cable feeds. It is inherent that a tuner must be used in order to properly receiving programming on these mediums.

Regarding Claim 30, Matthews in view of Browne disclose a system as stated above in Claim 29. Browne further discloses a processor as stated above. What is not disclosed, however, is that the receiver comprise a demultiplexer. Official Notice is hereby taken that it is well known to use a demultiplexer when receiving audio/video data at an output device. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Matthews in view of Browne with the demultiplexer of the well-known prior art in order to implement the receiving of video/audio information in a digital data-stream such as the well-known MPEG format.

Regarding Claim 31, see Claim 20 above. Browne further discloses playing back a stored program and viewing an incoming program source (Page 13, Lines 11-13) wherein the displayed programming may be presented on several monitor simultaneously (Page 13, Lines 29-33) or in multiple windows as stated above. This reads on the claimed processor being configured to present a first perspective to a viewer while presenting at least a second, stored perspective to the viewer.

Regarding Claim 32, see Claim 16 above.

Regarding Claim 33, see Claim 3 above.

Regarding Claim 34, see Claim 5 above.

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Regarding Claim 35, Matthews in view of Browne disclose a system as stated above in Claim 31. Browne discloses a system operable to store and playback programming simultaneously. This reads on the claimed system being configured to store the at least one perspective simultaneously with presenting the second perspective.

Regarding Claim 36, Matthews in view of Browne disclose a system as stated above in Claim 31. Browne further discloses a display coupled to the processor for presenting at least one perspective (Page 6, Line 27).

Regarding Claim 37, see Claim 9 above.

Regarding Claim 38, Matthews in view of Browne disclose a system as stated above in Claim 37. What is not disclosed, however, is that one of the first and second windows is nested inside the other of the first and second windows. Official Notice is taken that it was well known in the art at the time the invention was made to nest a window inside another window. Such a feature is known as picture-in-picture. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Matthews in view of Browne with the PIP of the well-known prior art in order to allow a user to view multiple programs at the same time with the more important/interesting programming occupying the majority of the viewing screen.

Regarding Claim 39-40, see Claim 7 above.

Regarding Claim 41-42, see Claim 8 above.

Regarding Claim 43, see Claim 10 above.

Regarding Claim 44, see Claim 14 above.

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Regarding Claims 45-54, see Claims 1-10 above, respectively.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. U.S. Patent No. 6,430,361 to Lee discloses a digital video recorder with a plurality of camera angles.
 - b. U.S. Patent No. 4,656,527 to Uchimi discloses a recording device capable of recording a plurality of channels simultaneously.
 - c. U.S. Patent No. 5,613,032 to Cruz et al. discloses a system for recording simultaneous multimedia events with different camera perspectives and windowed playback with VCR-like controls.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew R Demicco whose telephone number is (703) 305-8155. The examiner can normally be reached on Mon-Fri, 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Faile can be reached on (703) 305-4380. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MAD

mrd

August 2, 2004

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